

FIG. 1

OVERALL MICROARRAY PROCESS

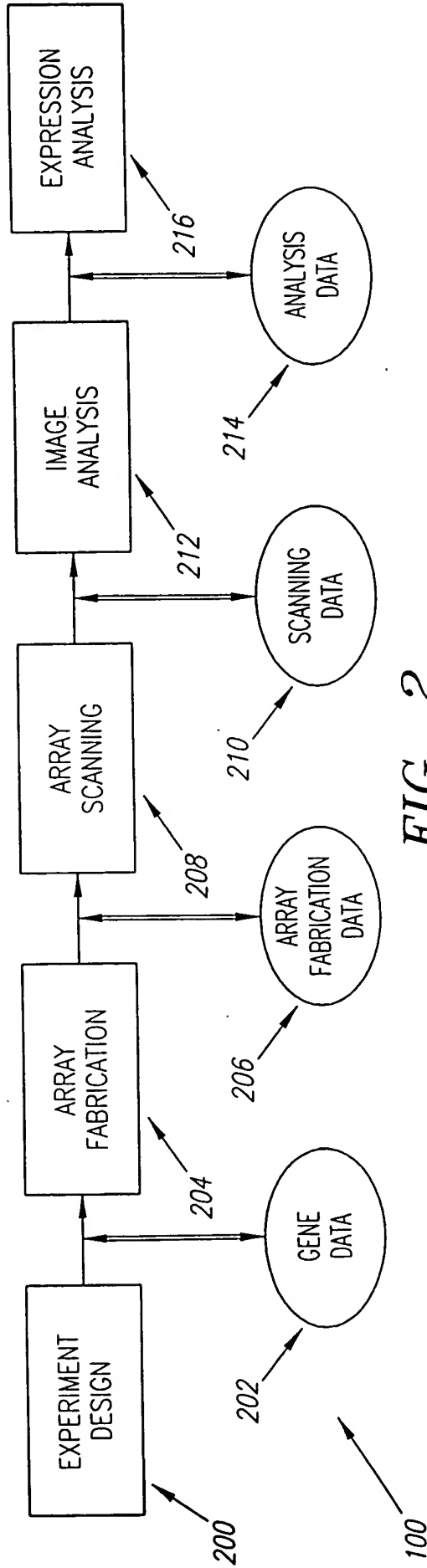


FIG. 2

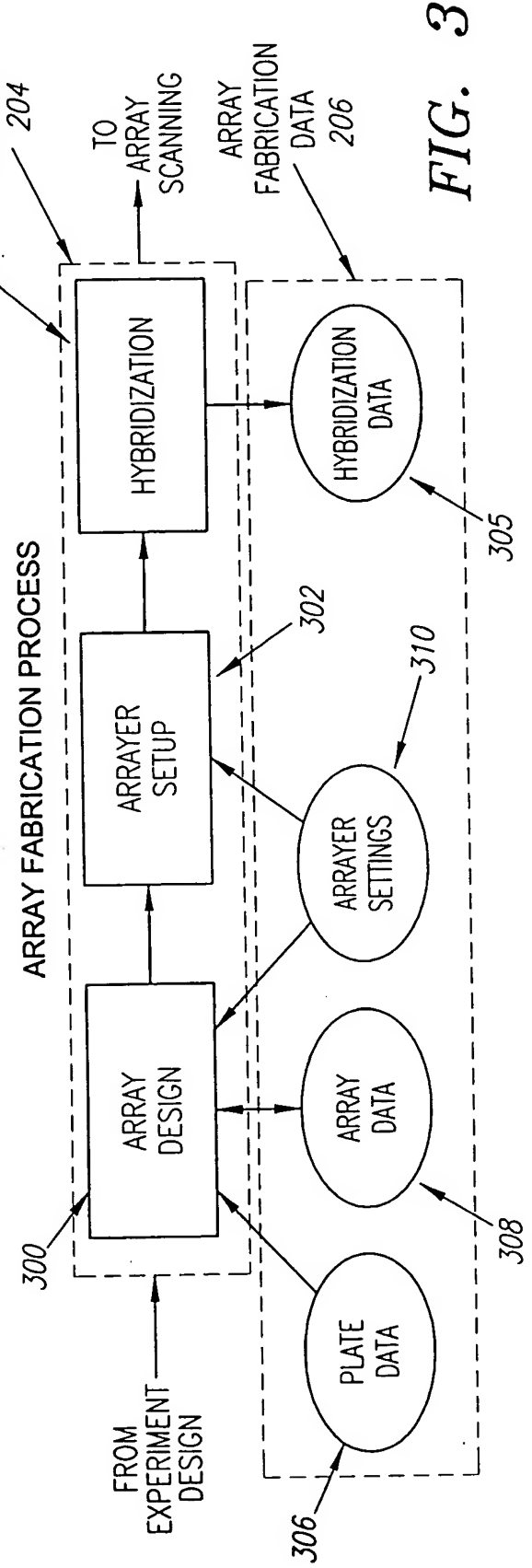
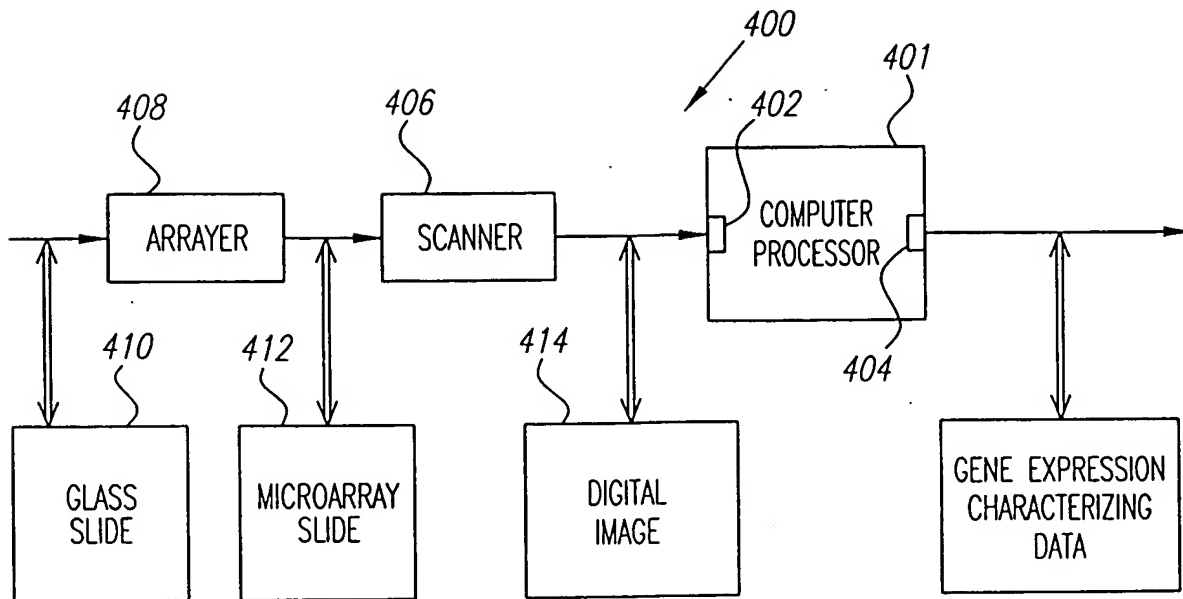
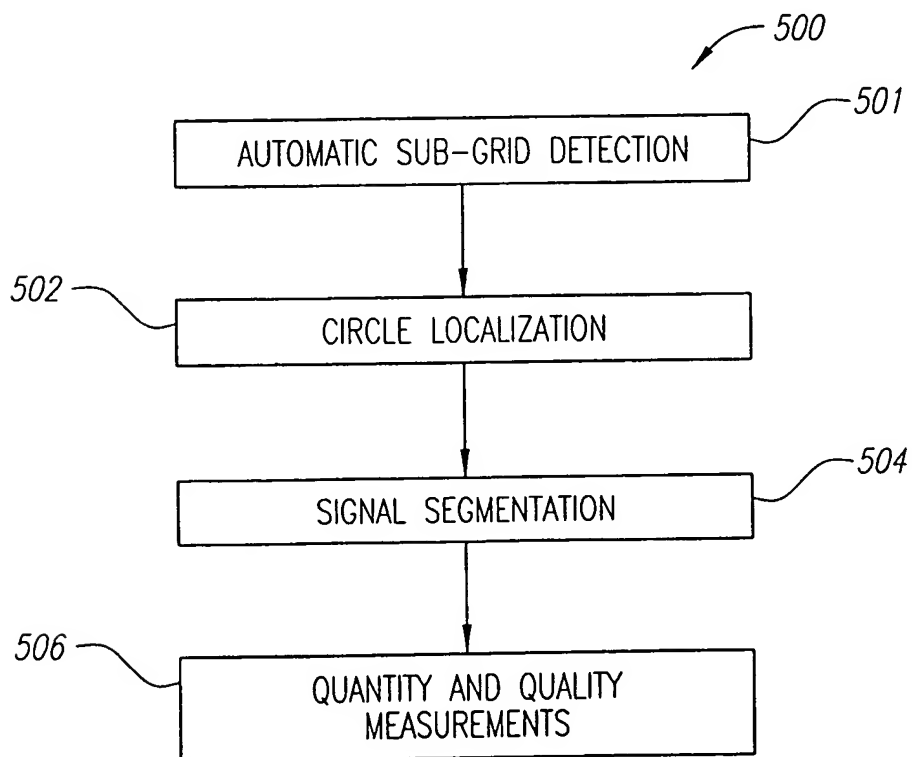
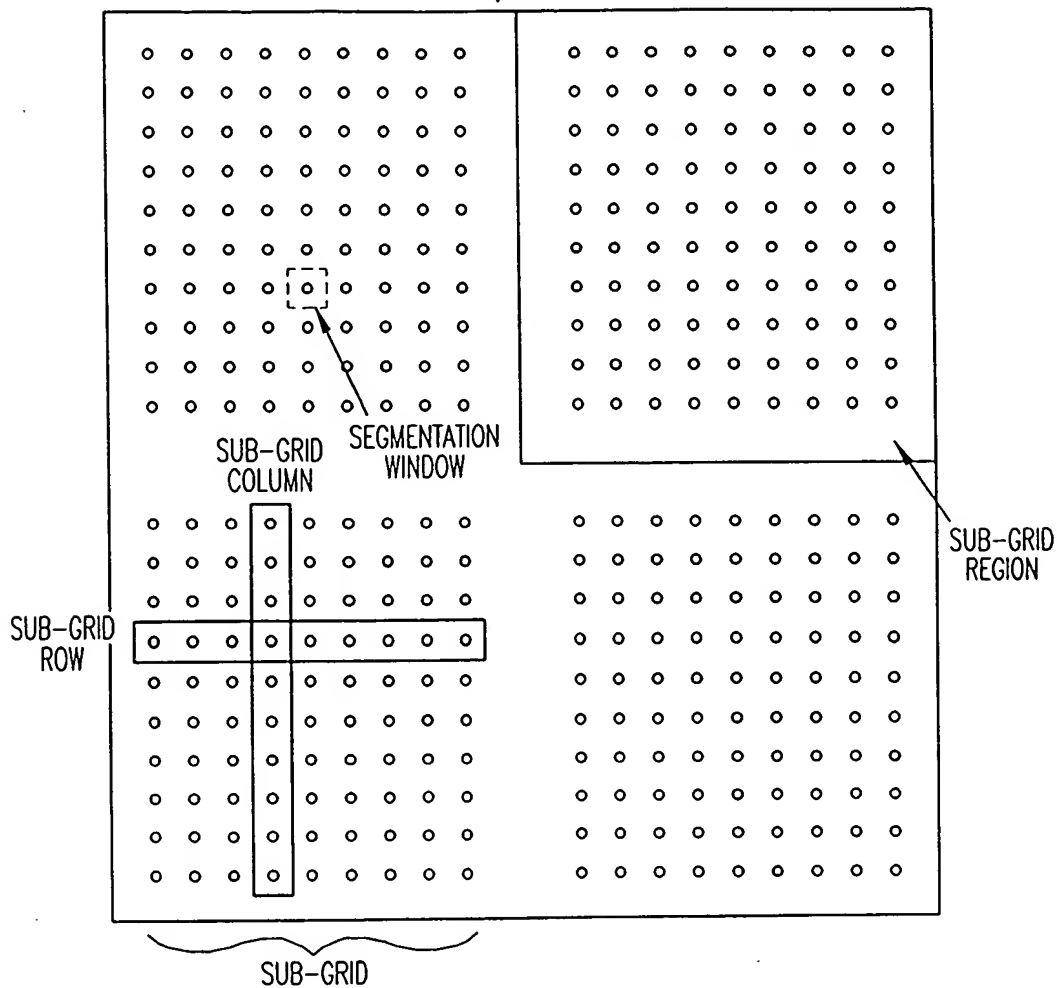
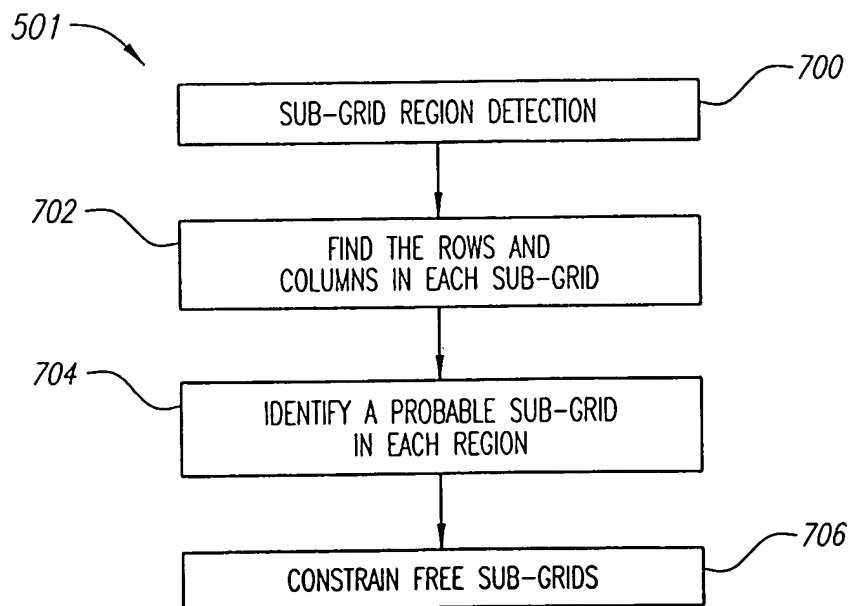


FIG. 3

*FIG. 4**FIG. 5*



2 x 2 MICROARRAY

FIG. 6*FIG. 7*

SUB-GRID REGION DETECTION

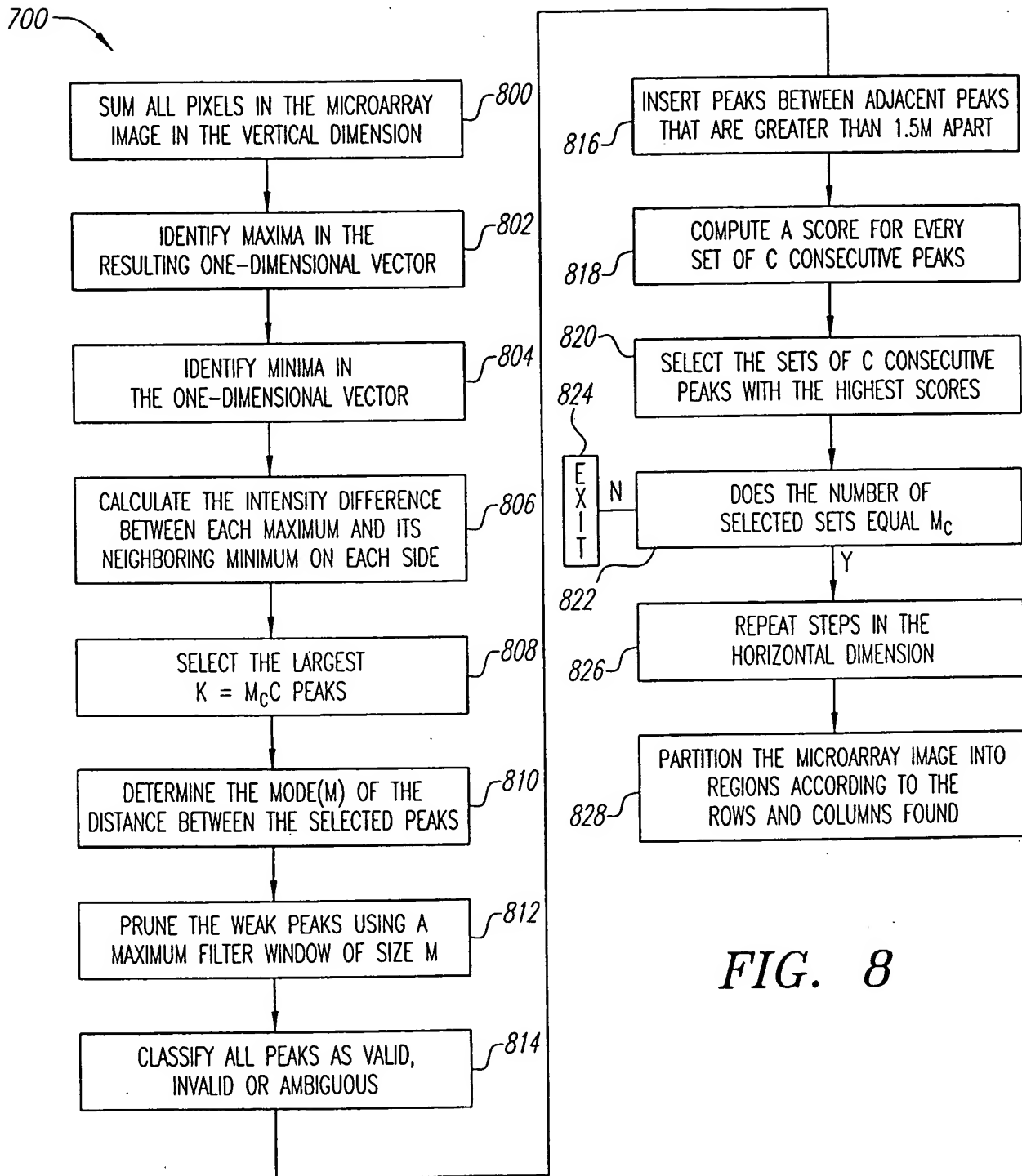


FIG. 8

SUB-GRID ROWS AND COLUMNS DETECTION

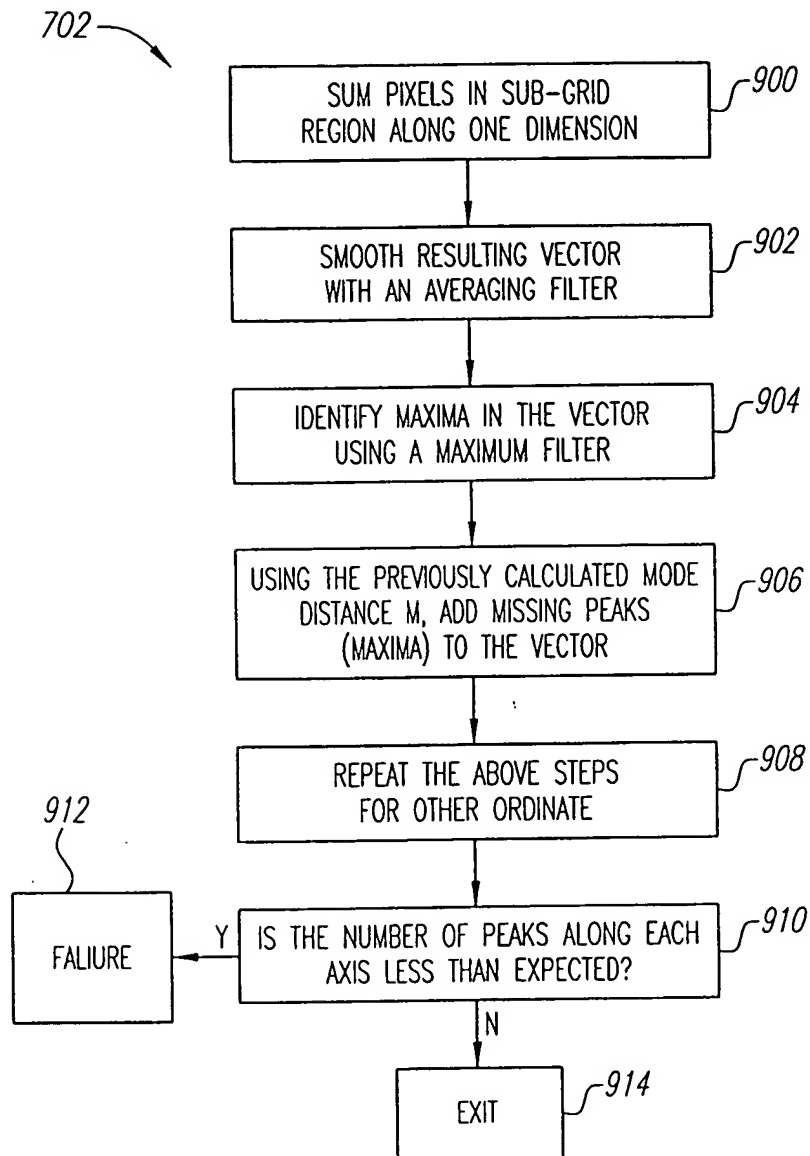


FIG. 9

IDENTIFYING SUB-GRIDS IN EACH SUB-GRID REGION

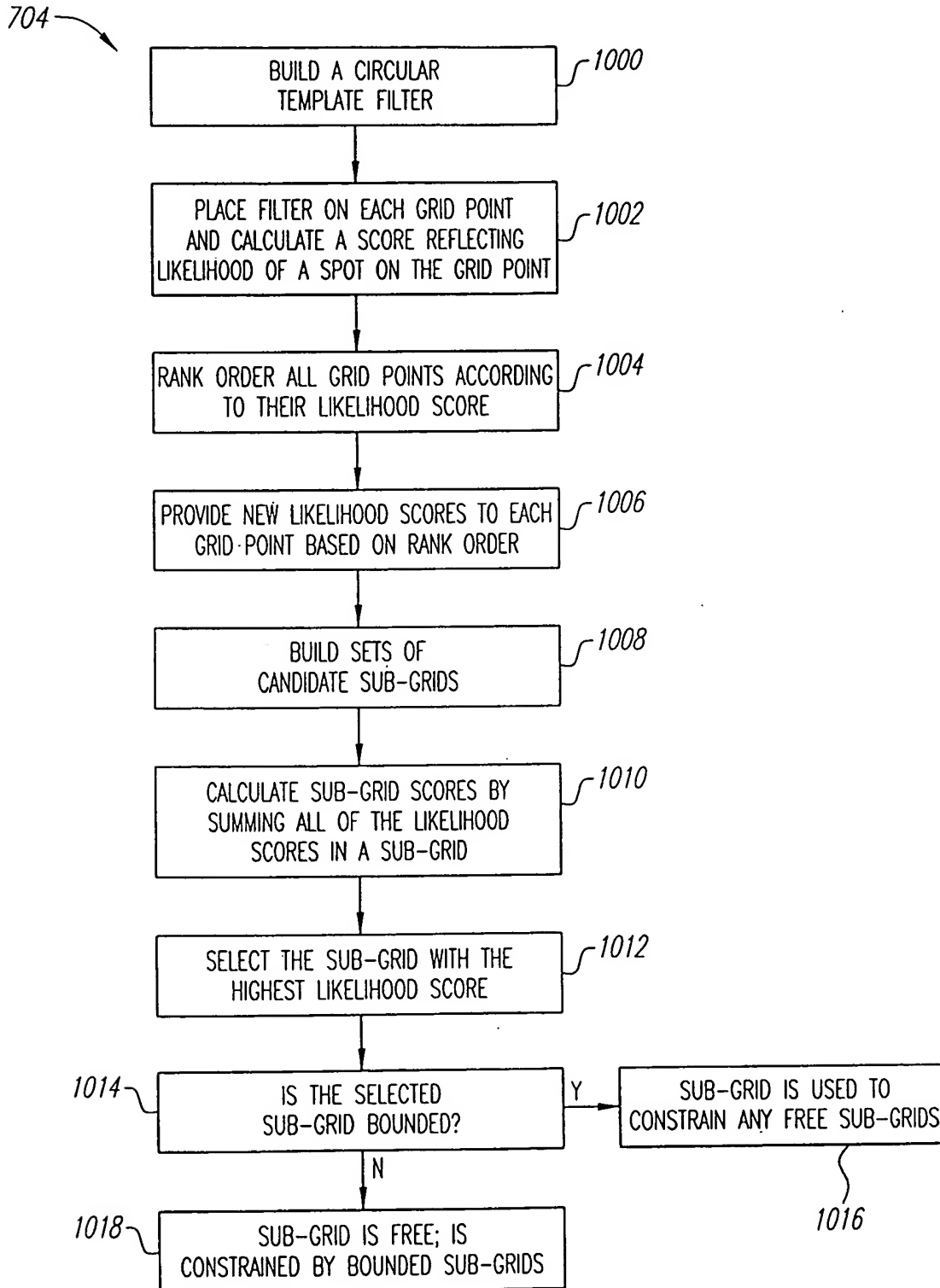
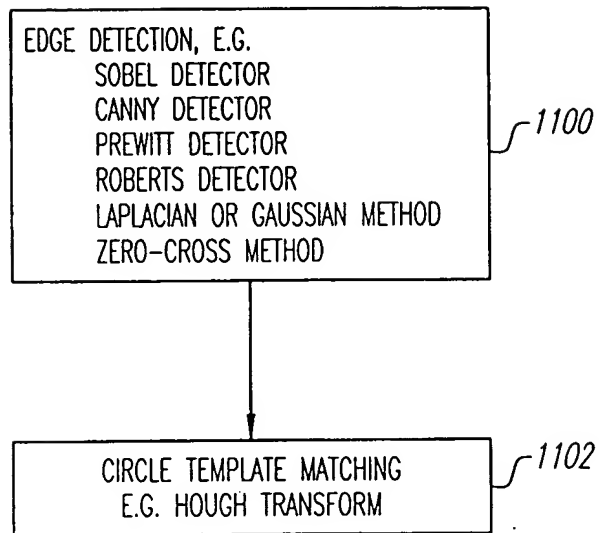
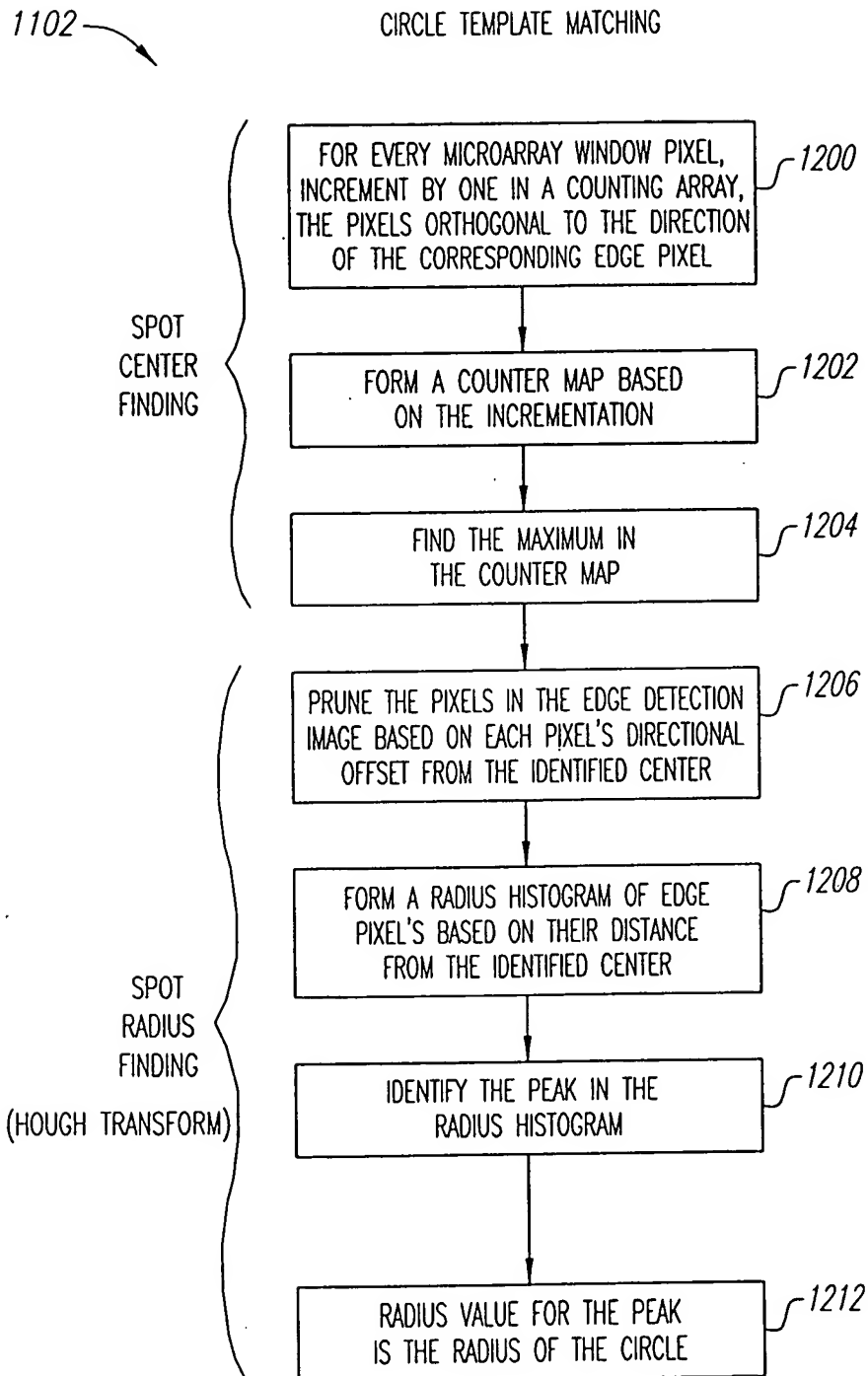


FIG. 10

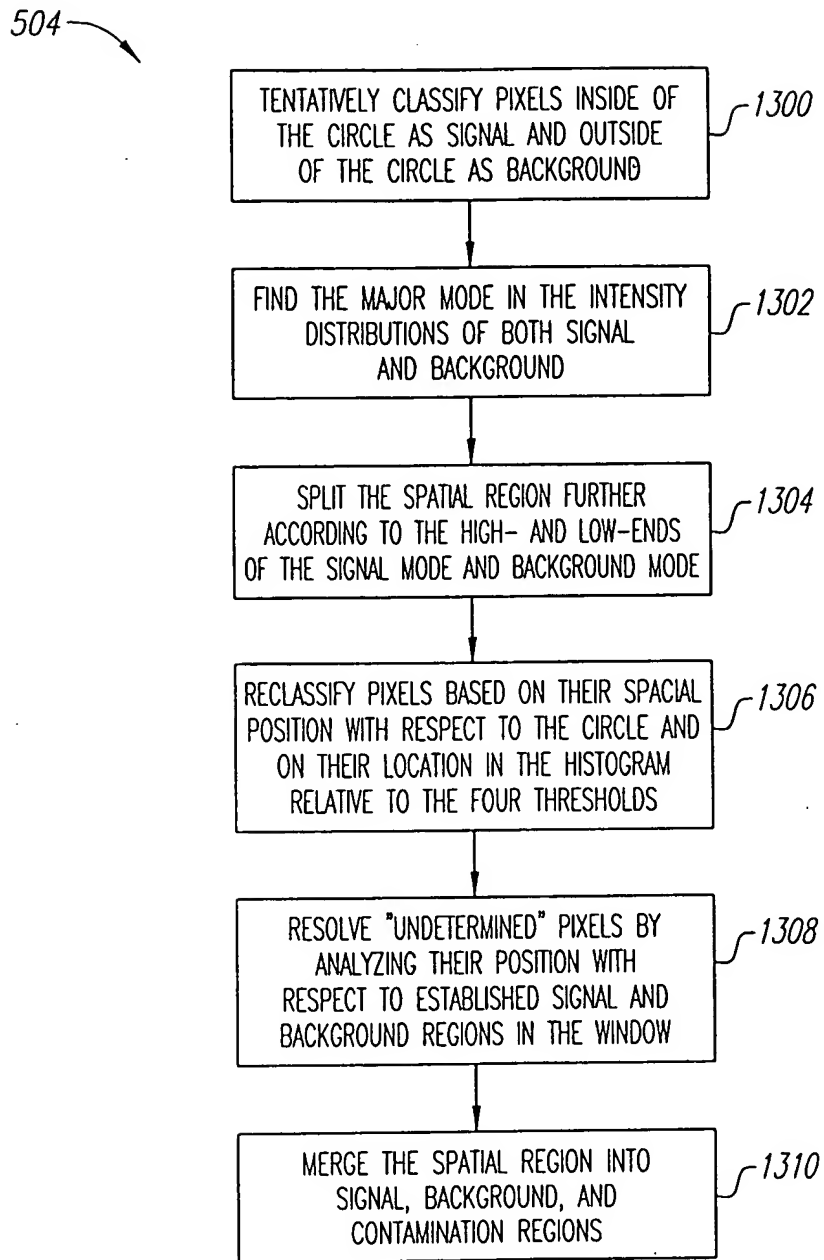
502

CIRCLE LOCALIZATION

*FIG. 11*

*FIG. 12*

SIGNAL SEGMENTATION

*FIG. 13*

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MAJOR MODE FINDING

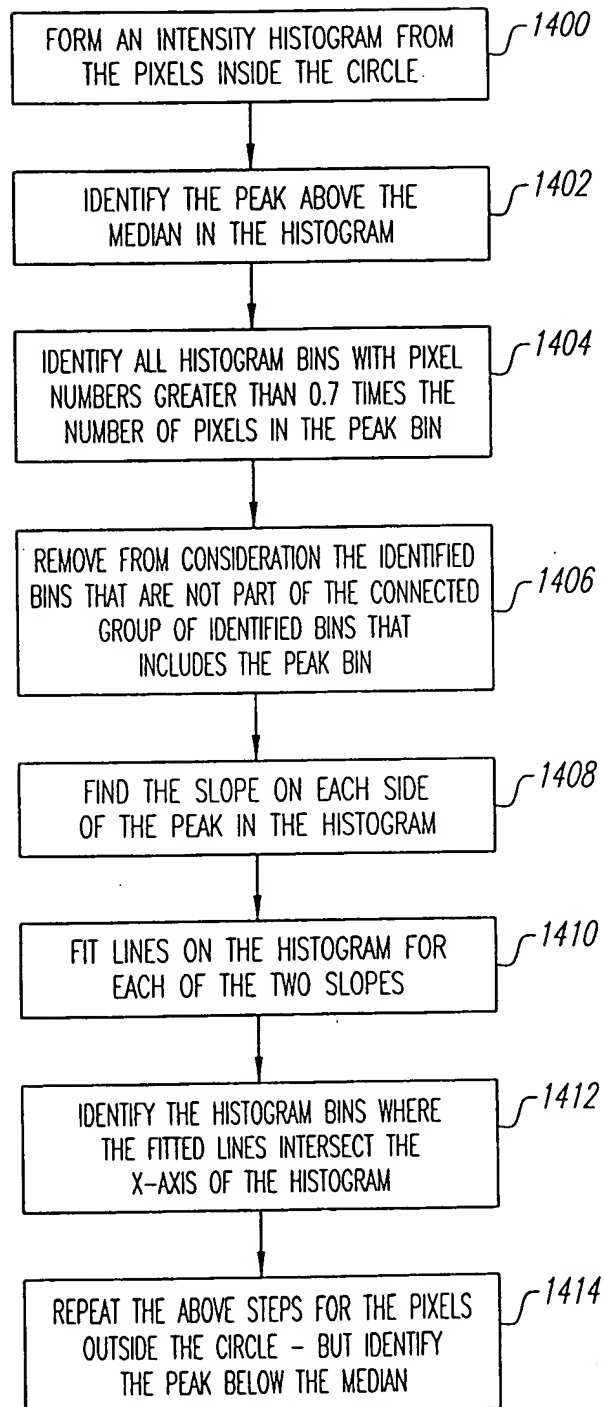
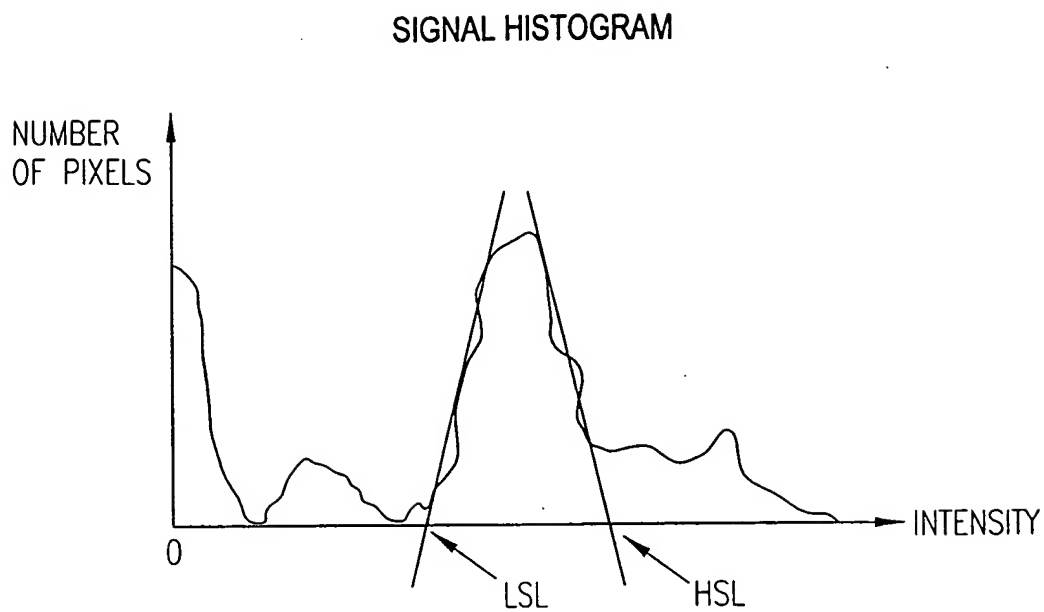
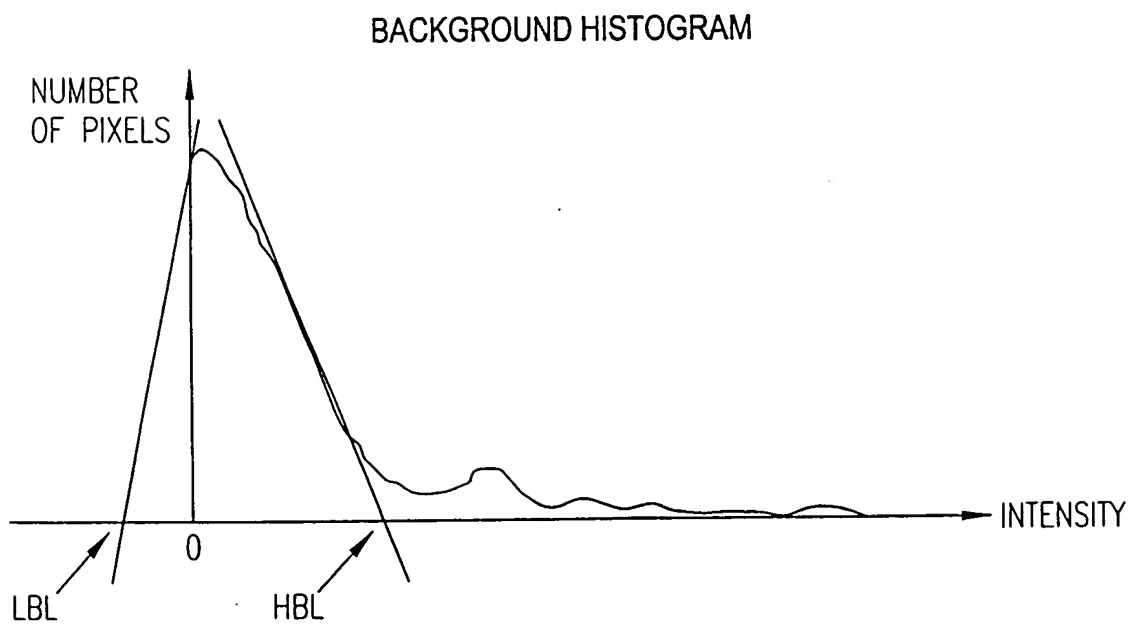
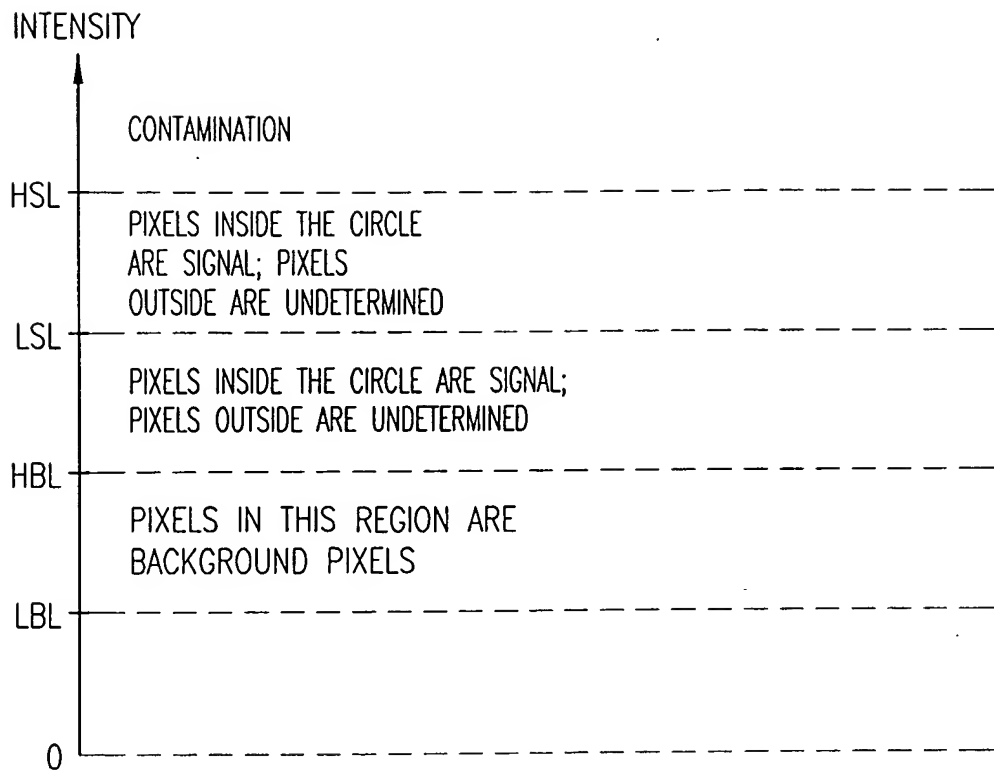
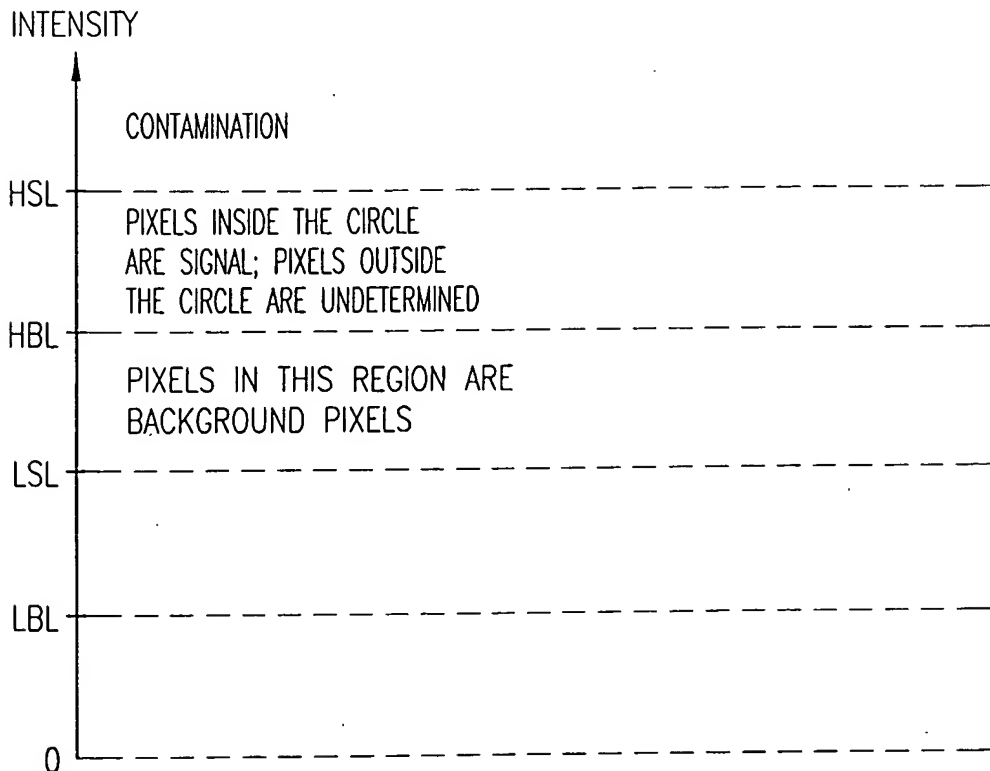


FIG. 14

*FIG. 15A**FIG. 15B*

*FIG. 16A**FIG. 16B*

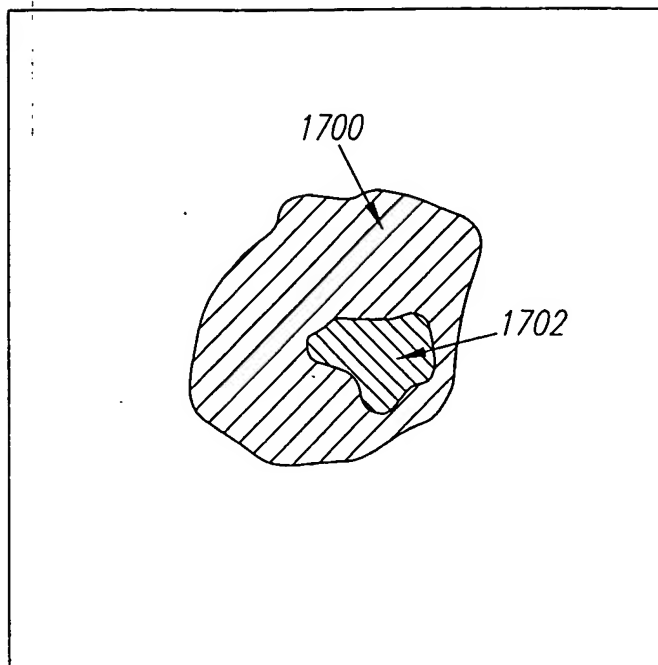


FIG. 17A

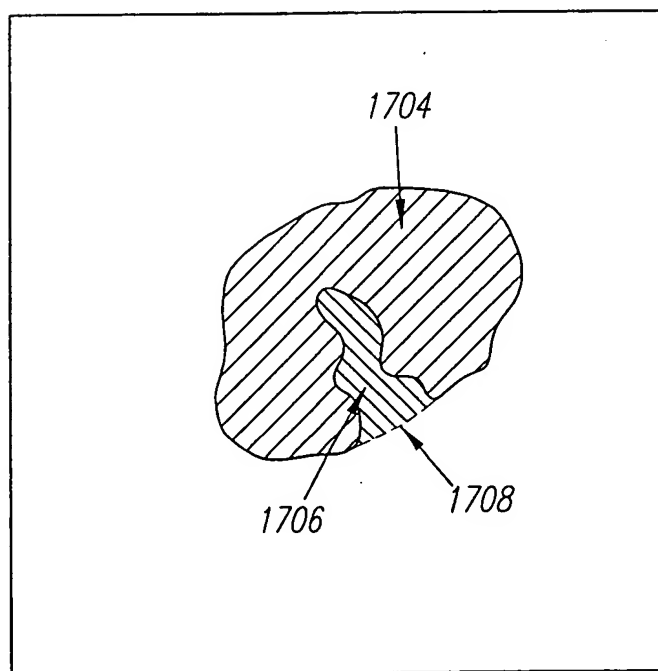


FIG. 17B